

Panel Potentiometer

Model P09x Series



Features:

- Multi-ganged—up to 6 gangs
- Excellent 100,000 cycles life
- Rotary and Momentary Switch options
- Push-lock options
- Concentric shaft option
- Center tap option
- PCB pins

Description:

9mm Rotary Potentiometer, with metal shaft and bushing. Options include audio and linear tapers; knurled, flatted and slotted shafts.

Applications:

- Audio / video equipment / Amplifiers / Mixers
- TV and multimedia sound systems / Portable electronics

Model Styles Available:

- Side Adjust, 1 to 6 gangs P09xN
- Side Adjust, 1 to 4 gangs, w/Rotary switch P09xS
- Side Adjust, 1 to 4 gangs, w/Momentary switch P09xM
- Side Adjust, 1 gang, w/ Rotary and Momentary switches P091B
- Top Adjust, 1 or 2 gangs P09x5N
- Top Adjust, 1 gang w/Rotary switch P0915S
- Side Adjust, with Push-Lock, 1 or 2 gangs P09xP
- With Concentric shaft, 2 to 4 gangs P09xC
- With Center Tap, 2 gangs only P092T

Electrical Characteristics

T_A = 25°C unless otherwise noted

Resistance Range	1KΩ to 1MΩ
Standard Resistance Tolerance	± 20%
Residual Resistance	20 ohms max
Resistance Taper	Audio (10A, 15A, 15C), Linear (1B) - see note 3
Maximum Operating Voltage	50Vac
Rated Power	Linear Taper B: 0.05W Other Tapers: 0.025W
Dielectric Strength	300 Vac , 1 minute
Rotational Noise	100mV max
Insulation Resistance	>100M ohms at 250 Vdc
Gang Error (Multi-ganged)	-40dB to 0dB, ±3dB

General Note

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Rotary Switch Characteristics

T_A = 25°C unless otherwise noted

Switch Circuit	SPST
Contact Resistance	<100mohms
Rated Power	3.0A at 16Vdc
Switch Torque	100-350 gf.cm
Switch Rotational Angle	50° Max.
Switch Life	15,000 cycles min.

Momentary Switch Characteristics

T_A = 25°C unless otherwise noted

Switch Circuit	SPST
Contact Resistance	<100mohms
Rated Power	0.5A at 12Vdc
Switch Torque	250-550 gf.cm
Switch Push Stroke Length	0.5 +0.5/-0.3 mm
Switch Life	15,000 cycles min.

Mechanical Characteristics

T_A = 25°C unless otherwise noted

Mechanical Travel (Rotational angle)	300° ± 10°
Rotational Torque	35 to 90 gf.cm
Rotational Stop Strength, Minimum	3.0kgf.cm
Shaft Pull Strength, Minimum	6.0 kgf
Detent Torque	50 to 200 gf.cm
Nut Tightening Strength, Minimum	8.0 kgf
Rotational Life	100,000 cycles

Environmental Characteristics

T_A = 25°C unless otherwise noted

Operating Temperature	-10°C to 70°C
IP Rating	IP50
Soldering Condition	Compatible with Industry standard soldering processes: Manual: SAC 270 °C max. for 3 seconds. Wave: SAC 260 °C max. for 5 seconds.
RoHS	Please refer to TT Electronics Website
REACH	Please refer to TT Electronics Website

General Note

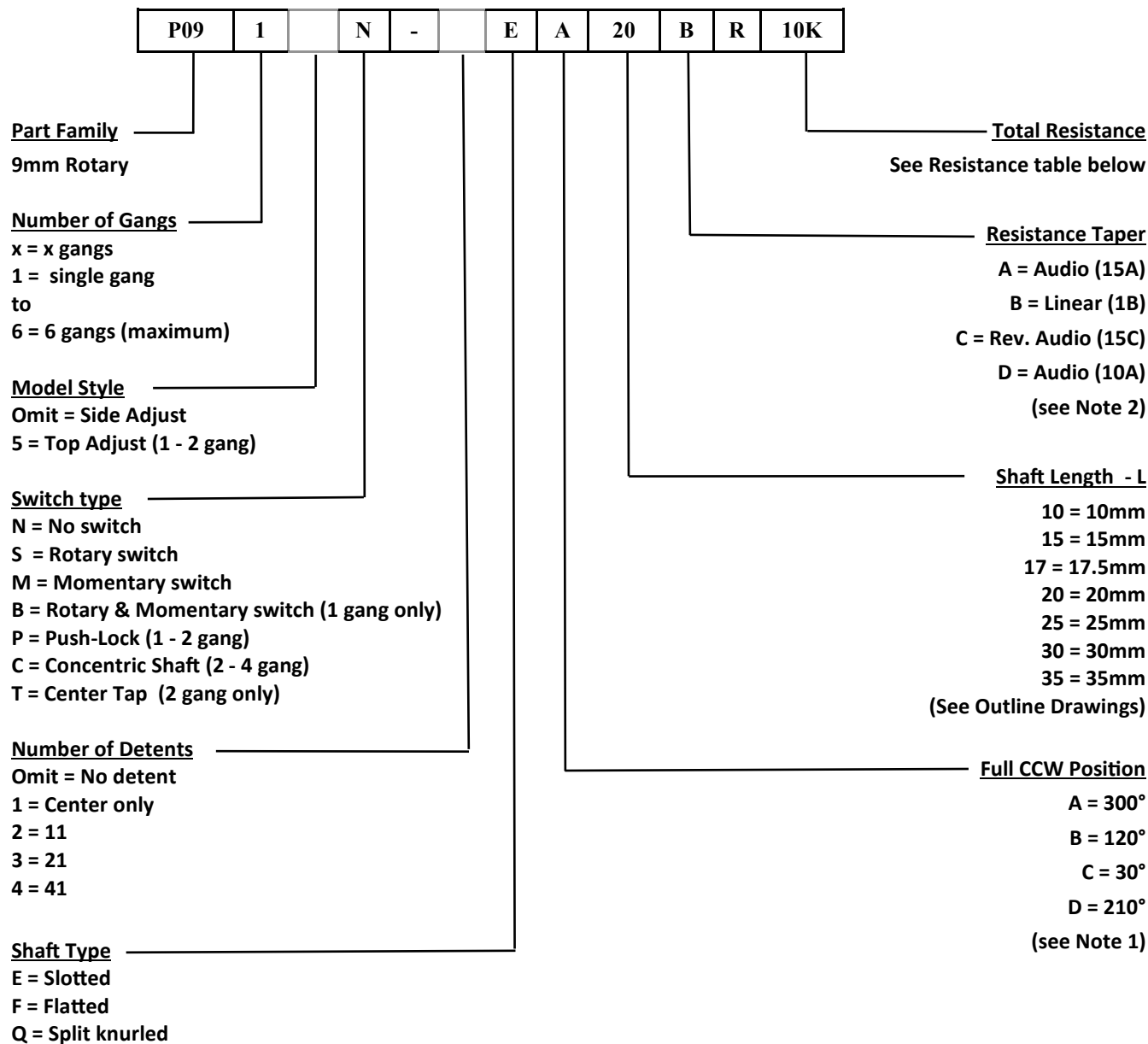
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Ordering Information



Resistance table										
Resistance (Ohms)	1,000	2,000	5,000	10,000	20,000	50,000	100,000	200,000	500,000	1,000,000
Code	1K	2K	5K	10K	20K	50K	100K	200K	500K	1MEG

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Panel Potentiometer

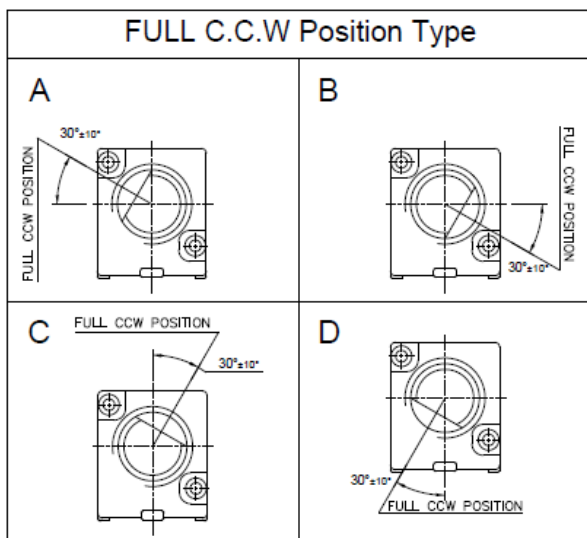
Model P09x Series



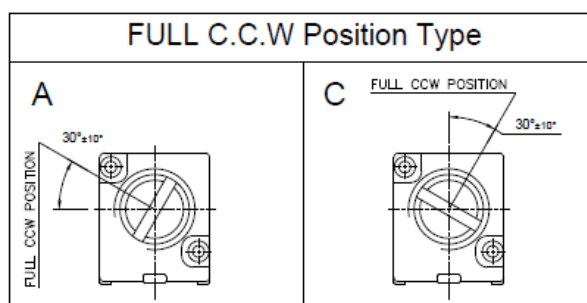
Note 1: Shaft Position

Models: P09xN, P09xS, P09xM, P091B, P09x5N, P0915S, P09xP, P09xT

F Shaft Type

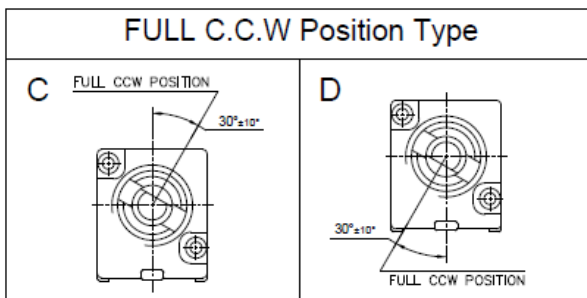


E /Q Shaft Type

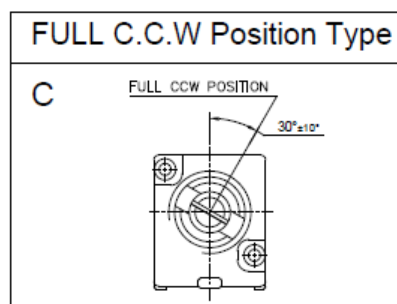


Models: P09xC

F Shaft Type



E /Q Shaft Type



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Panel Potentiometer

Model P09x Series

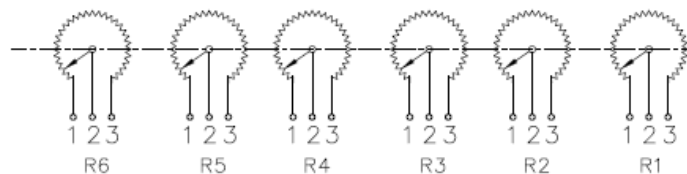
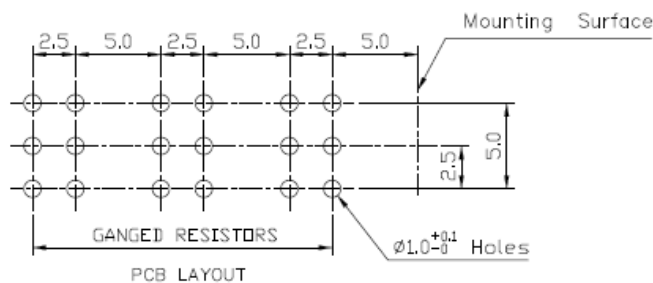
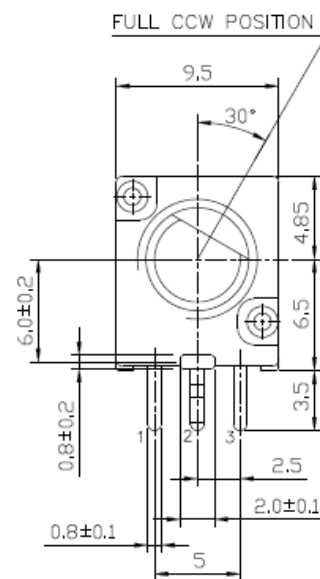
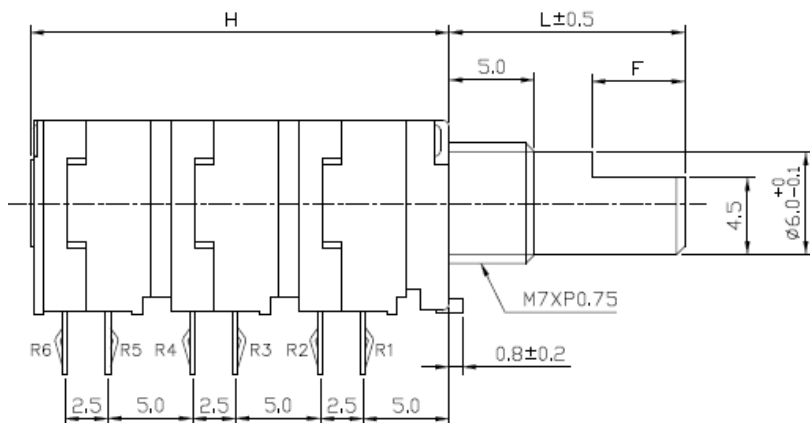


Outline Drawings

Model P09xN (Side Adjust, PCB pins, up to 6 gangs)

X = Number of Gangs

X	1	2	3	4	5	6
H	7.05	9.55	14.55	17.05	22.05	24.55



CIRCUIT DIAGRAM

E-TYPE		F-TYPE		Q-TYPE	
L	10 15 20 25 30	L	10 15 20 25 30	L	10 15 20 25 30
		F	4 7 12 12 12	P	4 7 13 14 14
				T	4 6 12 12 12
				M	1 1 2 2 4

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Panel Potentiometer

Model P09x Series

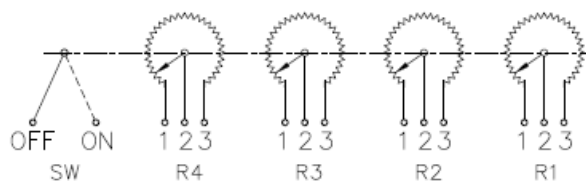
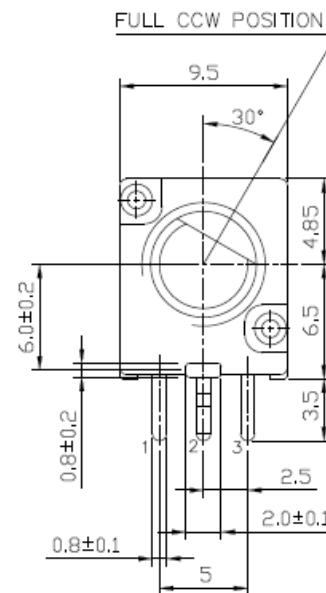
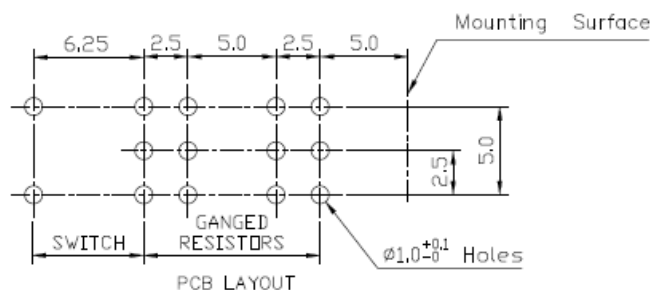
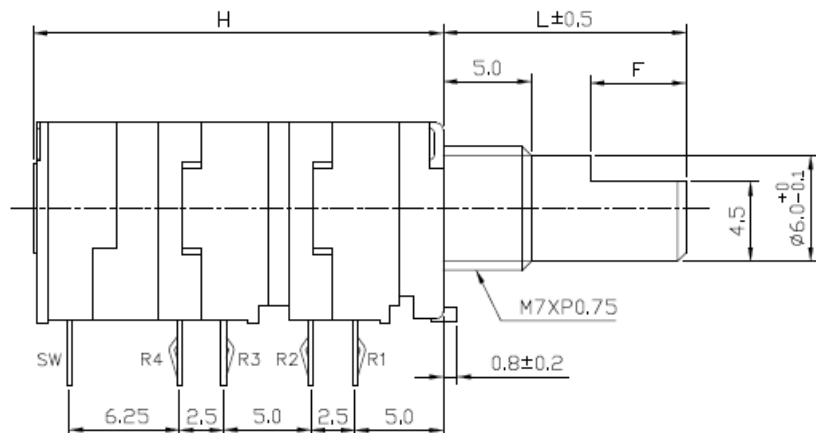


Outline Drawings

Model P09xS (Side Adjust, PCB pins, up to 4 gangs with Rotary Switch)

X = Number of Gangs + 1 Switch

X	1	2	3	4
H	13.3	15.8	20.8	23.3



CIRCUIT DIAGRAM

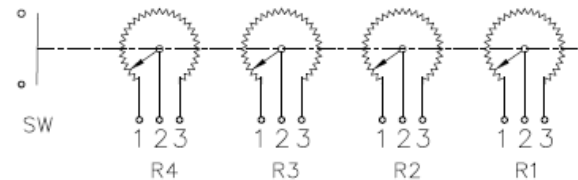
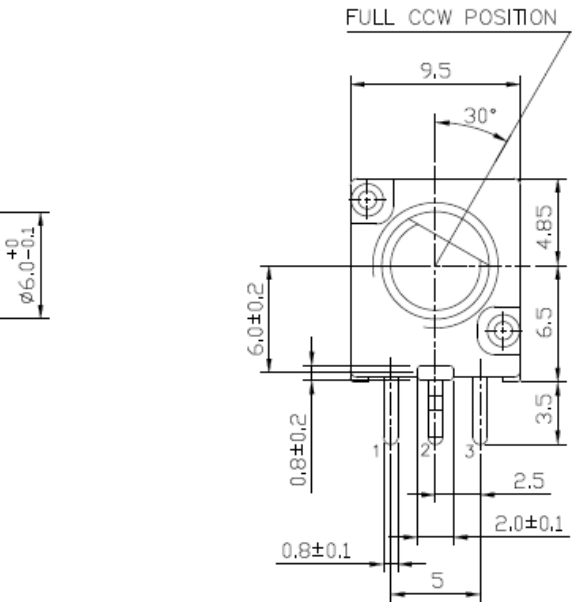
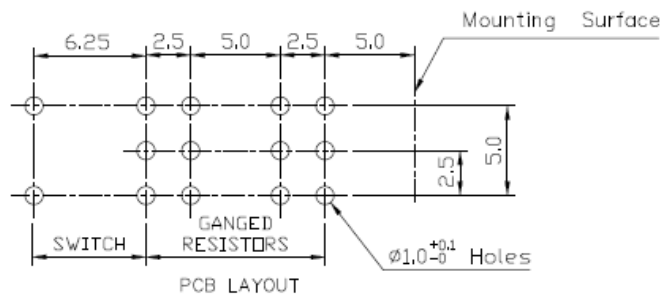
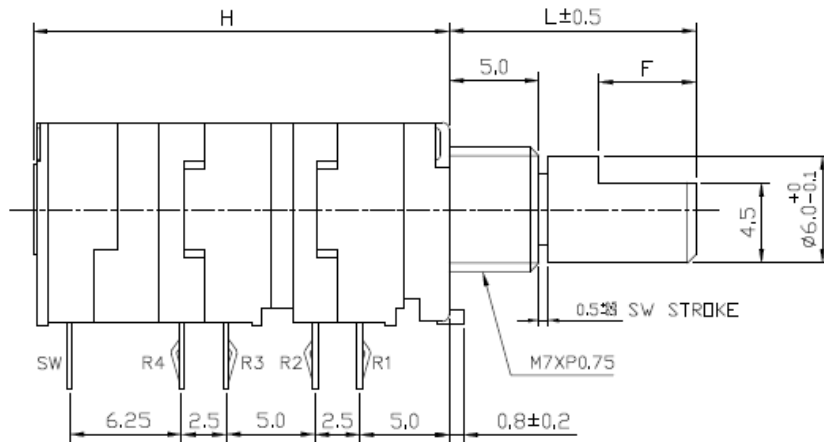
E-TYPE <table border="1"> <tr> <td>L</td><td>10</td><td>15</td><td>20</td><td>25</td><td>30</td></tr> </table>		L	10	15	20	25	30	F-TYPE <table border="1"> <tr> <td>L</td><td>10</td><td>15</td><td>20</td><td>25</td><td>30</td></tr> <tr> <td>F</td><td>4</td><td>7</td><td>12</td><td>12</td><td>12</td></tr> </table>		L	10	15	20	25	30	F	4	7	12	12	12	Q-TYPE <table border="1"> <tr> <td>L</td><td>10</td><td>15</td><td>20</td><td>25</td><td>30</td></tr> <tr> <td>P</td><td>4</td><td>7</td><td>13</td><td>14</td><td>14</td></tr> <tr> <td>T</td><td>4</td><td>6</td><td>12</td><td>12</td><td>12</td></tr> <tr> <td>M</td><td>1</td><td>1</td><td>2</td><td>2</td><td>4</td></tr> </table>		L	10	15	20	25	30	P	4	7	13	14	14	T	4	6	12	12	12	M	1	1	2	2	4
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T	4	6	12	12	12																																										
M	1	1	2	2	4																																										

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Model P09xM (Side Adjust, PCB pins, up to 4 gangs with Momentary Switch)

X	1	2	3	4
H	13.3	15.8	20.8	23.3



E-TYPE

L	10	15	20	25	30
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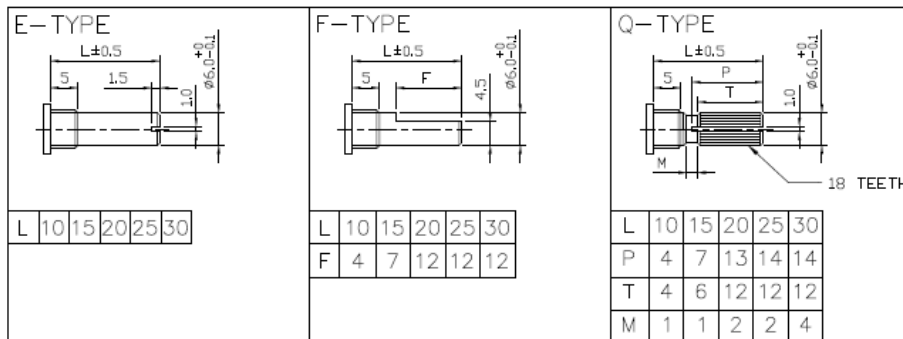
F-TYPE

L	10	15	20	25	30
F	3	7	12	12	12

Q-TYPE

L	10	15	20	25	30
P	3.2	7	13	14	14
T	3.2	6	12	12	12
M	1	1	2	2	4

Model P0915N (Top Adjust, PCB pins, 1 gang)



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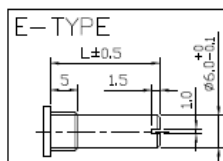
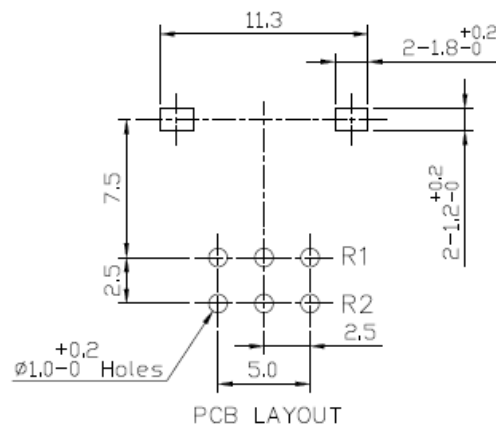
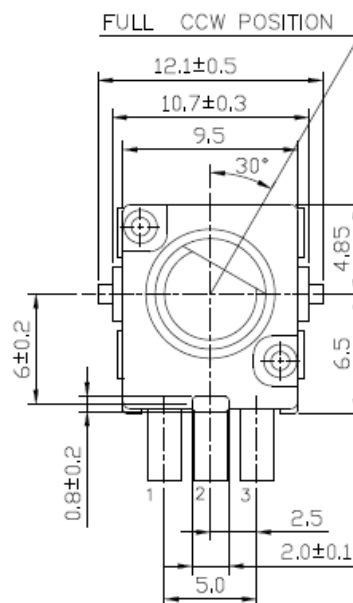
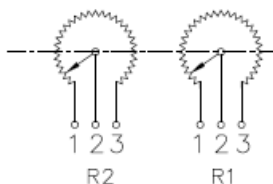
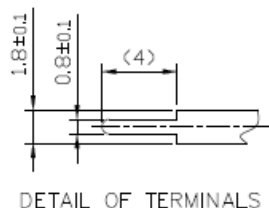
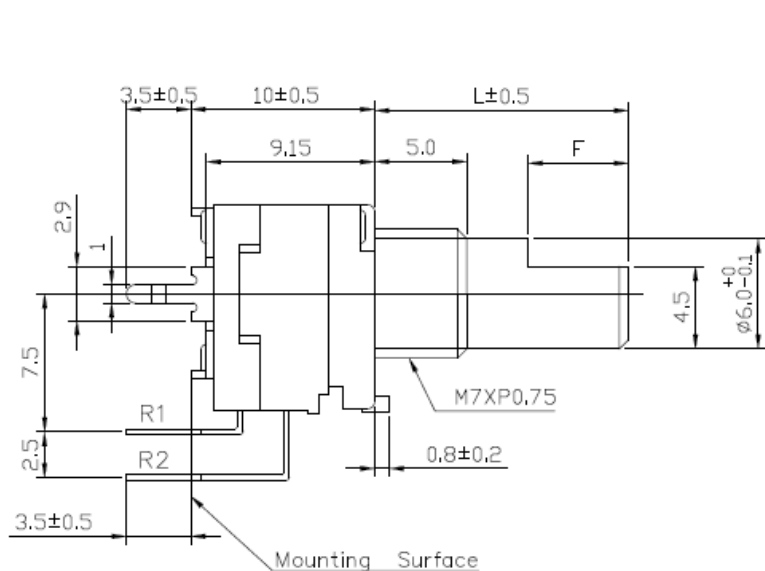
Panel Potentiometer

Model P09x Series

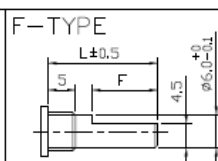


Outline Drawings

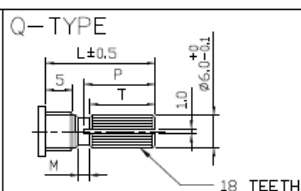
Model P0925N (Top Adjust, PCB pins, 2 gangs)



L	10	15	20	25	30
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L	10	15	20	25	30
F	4	7	12	12	12



L	10	15	20	25	30
P	4	7	13	14	14
T	4	6	12	12	12
M	1	1	2	2	4

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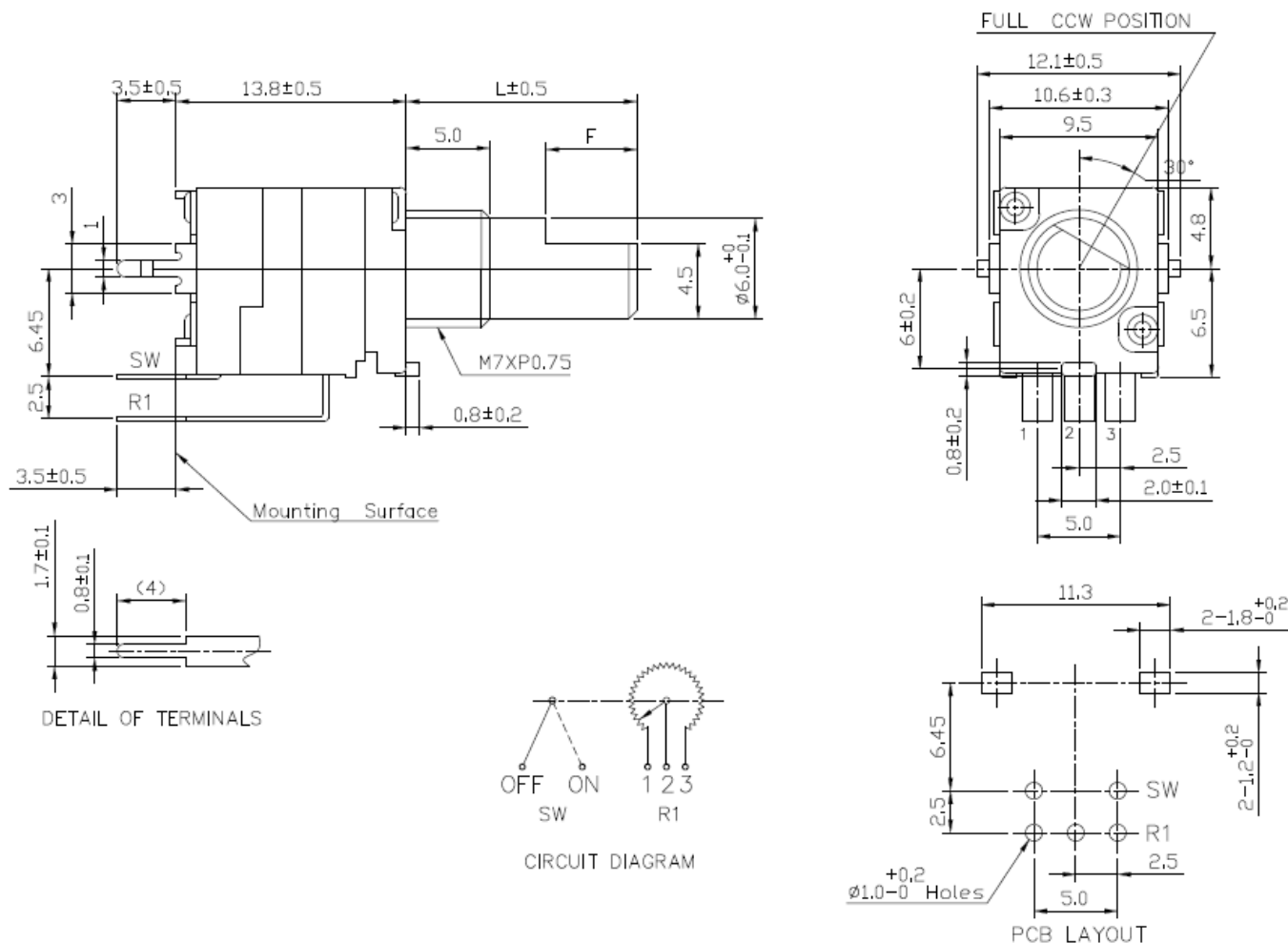
Panel Potentiometer

Model P09x Series



Outline Drawings

Model P0915S (Top Adjust, PCB pins, with Rotary Switch, 1 gang only)



E-TYPE

L	10	15	20	25	30
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F-TYPE

L	10	15	20	25	30
F	4	7	12	12	12

Q-TYPE

L	10	15	20	25	30
P	4	7	13	14	14
T	4	6	12	12	12
M	1	1	2	2	4

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Panel Potentiometer

Model P09x Series

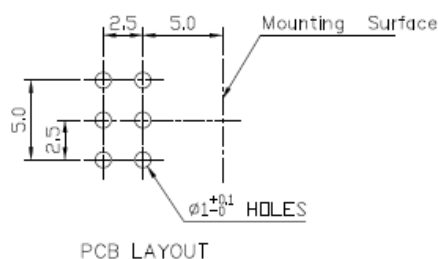
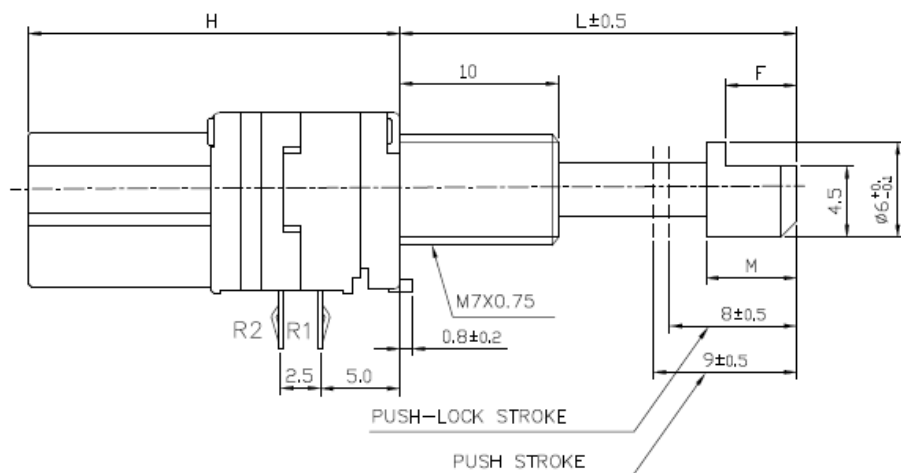


Outline Drawings

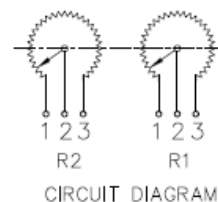
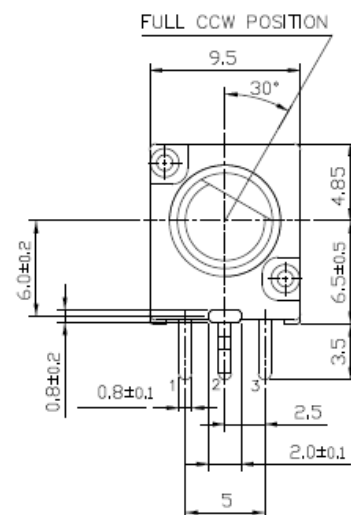
Model P09xP (Side Adjust, PCB pins, with Push-Lock, up to 2 gangs)

X = Number of Gangs

X	1	2
H	20.75	23.25



PCB LAYOUT



CIRCUIT DIAGRAM

E-TYPE

Technical drawing of the E-TYPE push-rod assembly. The drawing shows a cross-section of the assembly with dimensions in millimeters. The total length is $L \pm 0.5$. The distance from the left end to the start of the push-rod is 10 mm. The distance from the start of the push-rod to the end of the push-rod is 1.5 mm. The distance from the end of the push-rod to the end of the assembly is 1.0 mm. The diameter of the push-rod is $\phi 6.0 \pm 0.1$. The distance from the left end to the start of the push-rod is 10 mm. The distance from the start of the push-rod to the end of the push-rod is 1.5 mm. The distance from the end of the push-rod to the end of the assembly is 1.0 mm. The diameter of the push-rod is $\phi 6.0 \pm 0.1$. The distance from the left end to the start of the push-rod is 10 mm. The distance from the start of the push-rod to the end of the push-rod is 1.5 mm. The distance from the end of the push-rod to the end of the assembly is 1.0 mm. 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General Note

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Model P09xC (Side Adjust, PCB pins with Concentric Shaft, 2 to 4 gangs)

Diagram illustrating a two-shaft gearbox configuration. The outer shaft is labeled "360° rotation, outer shaft" and the inner shaft is labeled "360° rotation, inner shaft".

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Panel Potentiometer

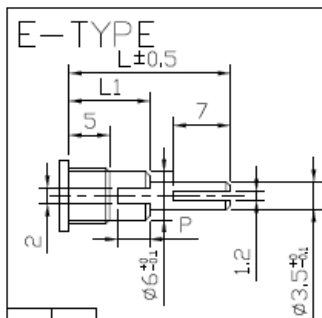
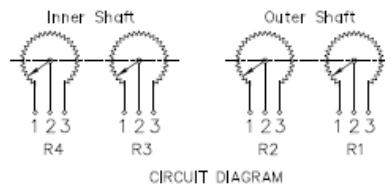
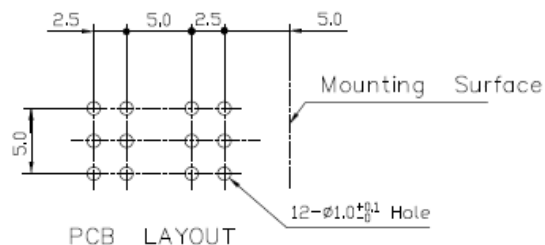
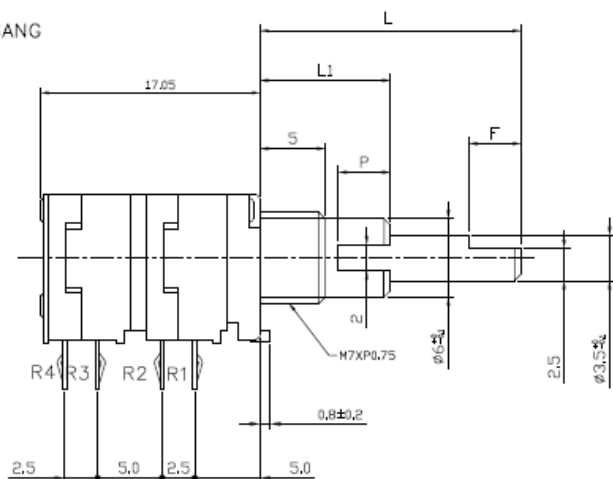
Model P09x Series



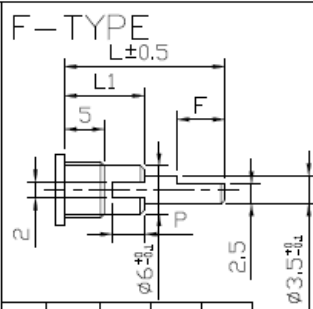
Outline Drawings

Model P09xC (Side Adjust, PCB pins with Concentric Shaft, 2 to 4 gangs), continued

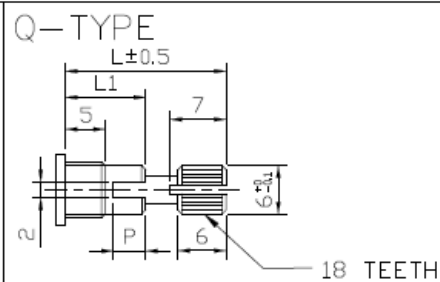
4 GANG



L	20
L1	10
P	4



L	15	17	20	25
L1	10	10	10	15
F	5	5	6	7
P	4	4	4	5



L	20
L1	10
P	4

Note: L = 17 is 17.5mm

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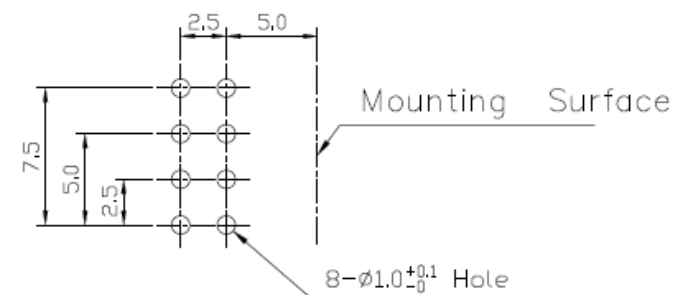
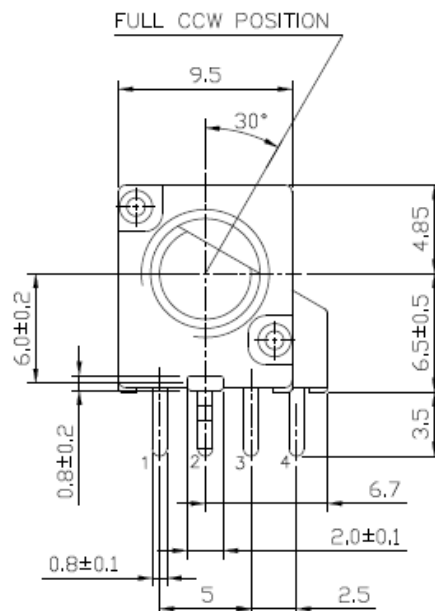
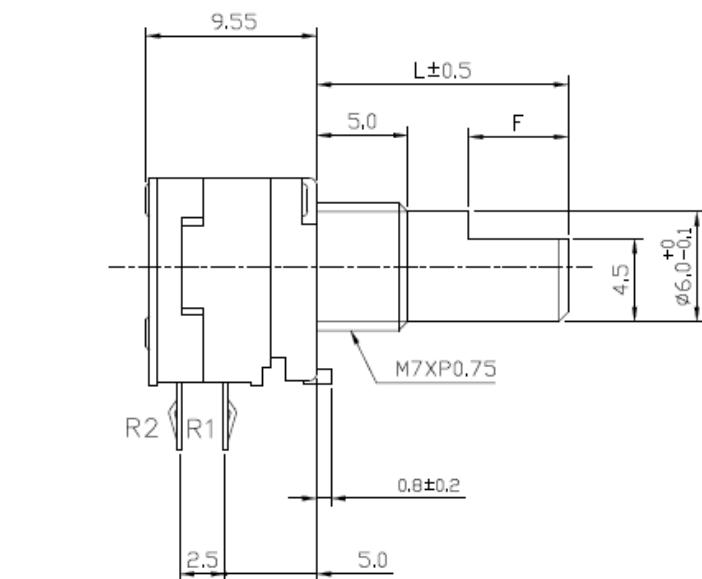
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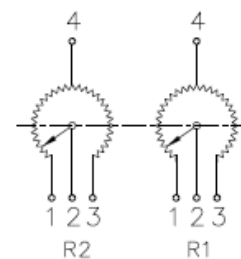
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Outline Drawings

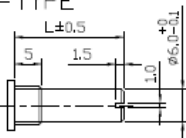
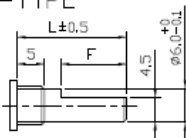
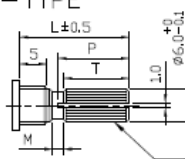
Model P092T (Side Adjust, PCB pins, with Center Tap, 2 gangs only)



PCB LAYOUT



CIRCUIT DIAGRAM

E-TYPE						F-TYPE						Q-TYPE					
																	
L 10 15 20 25 30						L 10 15 20 25 30						L 10 15 20 25 30					
						F 4 7 12 12 12						P 4 7 13 14 14					
												T 4 6 12 12 12					
												M 1 1 2 2 4					

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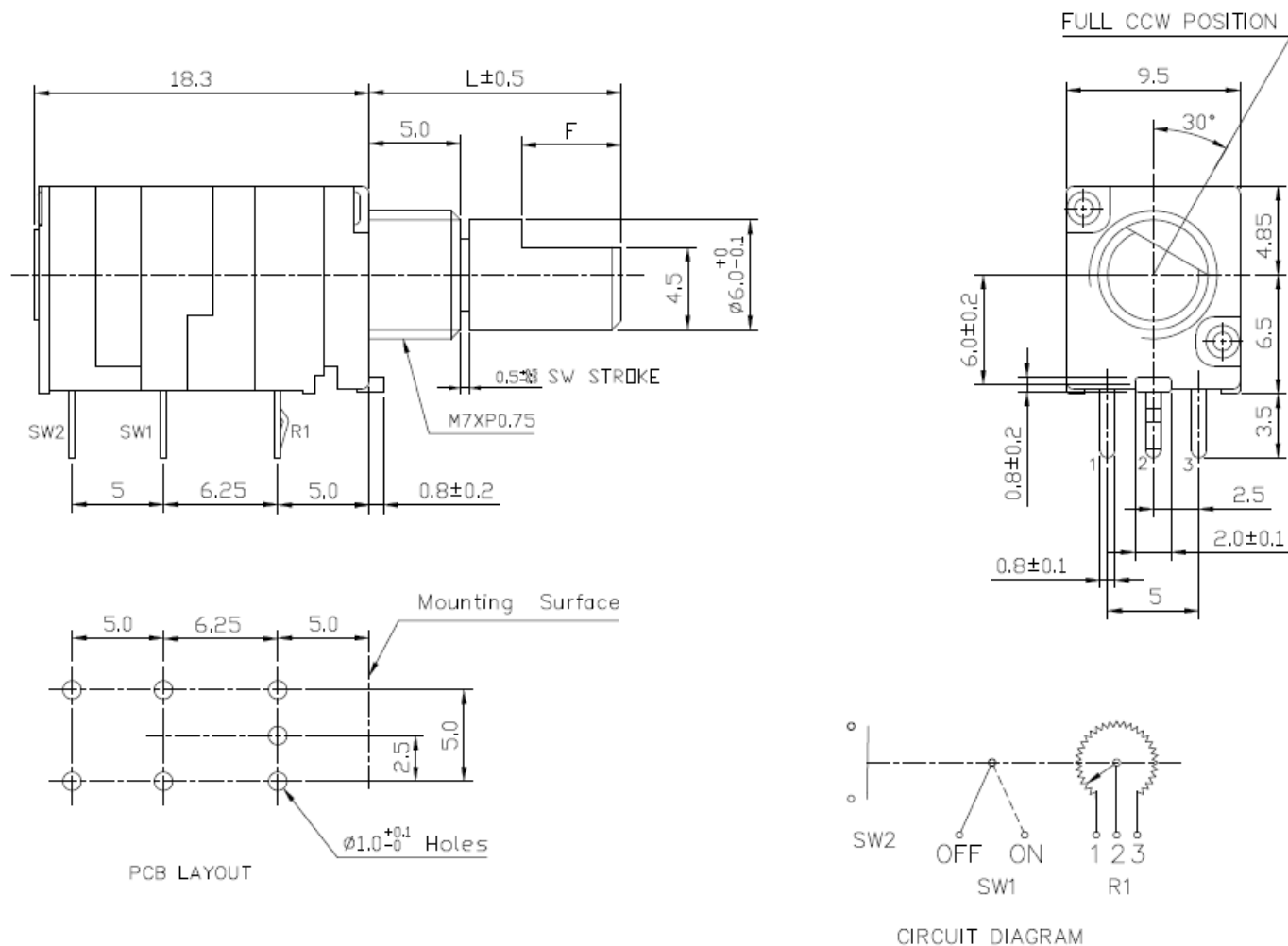
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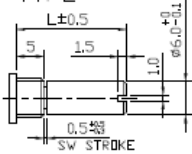
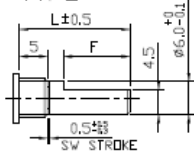
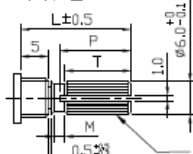
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Outline Drawings

Model P091B (Side Adjust, PCB pins, with Rotary and Momentary Switches, 1 gang only)



E-TYPE						F-TYPE						Q-TYPE					
																	
L	10	15	20	25	30	L	10	15	20	25	30	L	10	15	20	25	30
						F	3	7	12	12	12	P	3.2	7	13	14	14
												T	3.2	6	12	12	12
												M	1	1	2	2	4

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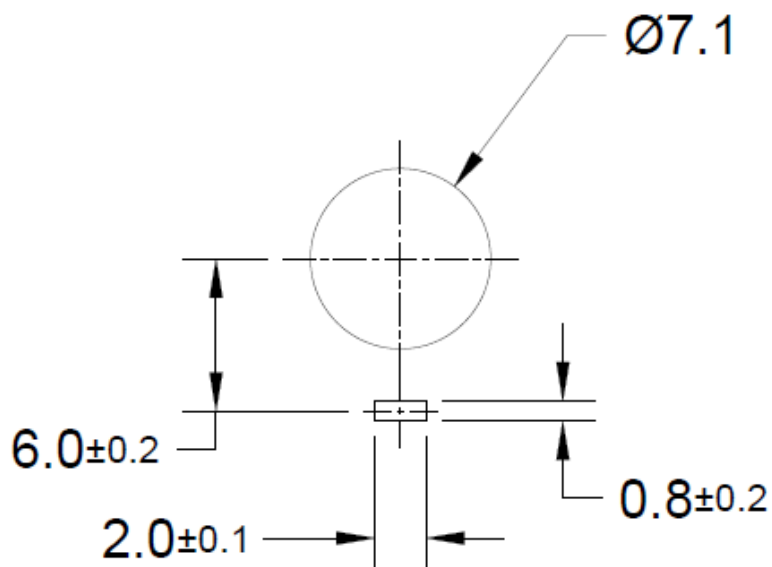
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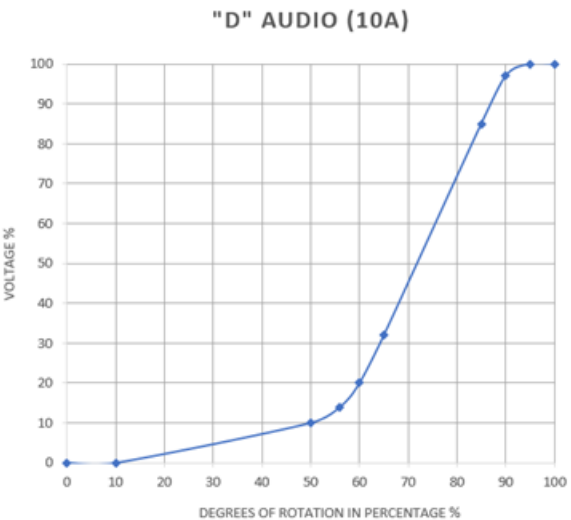
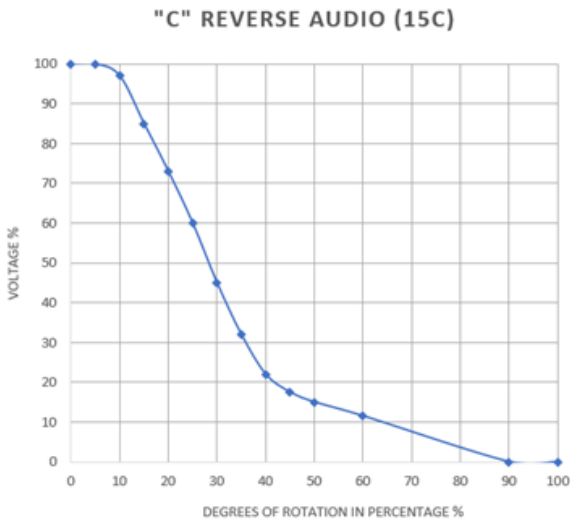
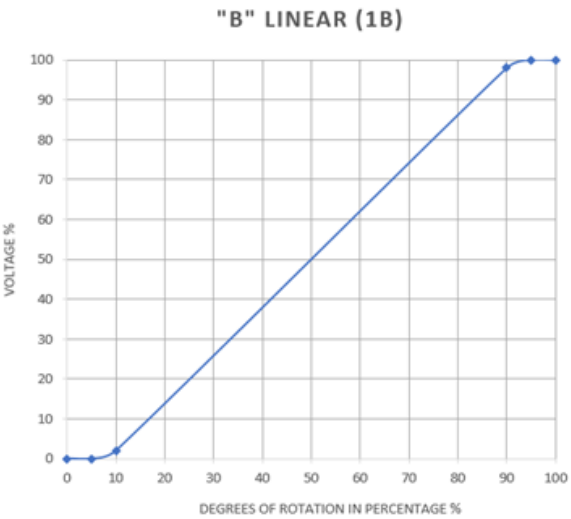
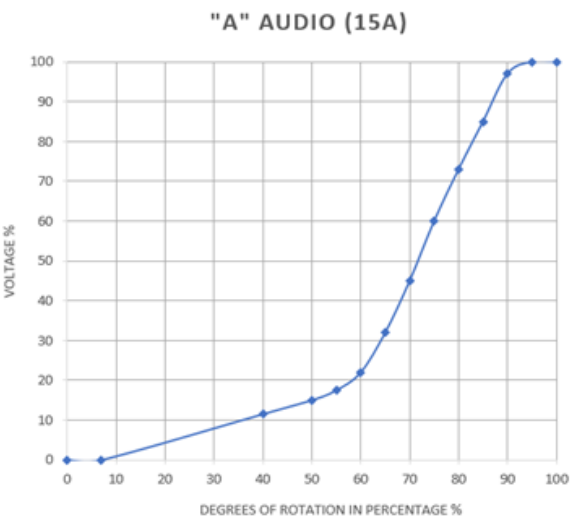
Panel Layout



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Note 2: Standard Tapers



Packaging

Standard Packaging	Plastic Trays
Hardware	Two flat washers and mounting nut